INTERNATIONA SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01Q1/40 H01C H01Q1/32 H01Q1/12 H0101/52 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01Q Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category * 1-11 EP 0 989 629 A (NIPPON ANTENA KABUSHIKI Α KAISHA) 29 March 2000 (2000-03-29) column 5, line 39 - line 50; figure 2 1 - 11EP 0 891 001 A (CALEARO MASSIMO) A 13 January 1999 (1999-01-13) figure 5 1-11 US 5 959 585 A (MILITZ UWE) Α 28 September 1999 (1999-09-28) the whole document 1-11 US 5 835 071 A (PHELPS CRAIG) Α 10 November 1998 (1998-11-10) abstract Patent family members are listed in annex. X Further documents are listed in the continuation of box C. Special categories of cited documents: *T* tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to *E* earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-O document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means *P* document published prior to the international filling date but later than the priority date claimed *&* document member of the same patent family Date of mailing of the International search report Date of the actual completion of the international search 11/02/2004 3 February 2004 Authorized officer Name and mailing address of the IS * European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Moumen, A

INTERNATIONAL SEARCH REPORT

	Information patent family members				PCT/ER 11375	
Patent document cited in search report		Publication date	Patent famil member(s)			Publication date
EP 0989629	Α .	29-03-2000	JP EP	200007792 098962		14-03-2000 29-03-2000
EP 0891001	A	13-01-1999	IT CN EP RU DE DE EP ES PT	VI94013 118705 089100 211736 6951335 6951335 6953023 070129 213911 70129	4 A ,B 1 A1 5 C1 3 D1 3 T2 4 D1 5 A1 3 T3	07-03-1996 08-07-1998 13-01-1999 10-08-1998 23-12-1999 08-06-2000 08-05-2003 13-03-1996 01-02-2000 28-04-2000
US 5959585	A	28-09-1999	DE CN CZ WO DE EP HU JP	1954362 116819 970211 971948 5960879 080606 970216 200050062	7 A ,B 6 A3 7 A2 6 D1 60 A2 60 A2	30-01-1997 17-12-1997 15-10-1997 29-05-1997 04-04-2002 12-11-1997 28-04-1998 18-01-2000
US 5835071	A	10-11-1998	AU AU CN DE DE EP JP KR	73418 459079 123177 6970966 6970966 092850 200150135 200004853	97 A 78 A 66 D1 66 T2 97 A1 63 T	07-06-2001 17-04-1998 13-10-1999 21-02-2002 22-08-2002 14-07-1999 30-01-2001 25-07-2000 02-04-1998

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